



Technical Standard Order

Subject: TSO-C19b, PORTABLE WATER-SOLUTION TYPE FIRE EXTINGUISHERS

Part 514—Technical Standard Orders for Aircraft Materials, Parts, Processes, and Appliances

Under section 601 of the Civil Aeronautics Act of 1938 and the delegation of authority from the Civil Aeronautics Board in §3.18, 4a.31, 4b.18, 6.18, and 7.18 of the Civil Air Regulations, the Administrator of Civil Aeronautics is authorized to adopt performance standards and specifications of materials, parts, processes, and appliances used in aircraft as he may find necessary to implement the provisions of the Civil Air Regulations. The Administrator adopted the Technical Standard Order system as a means to carry out this delegated authority. This system, in brief, provides for CAA-industry cooperation in the development of performance standards and specifications which are adopted by the Administrator as Technical Standard Orders, and a form of self-regulation by industry in demonstrating compliance with these orders.

Part 514 of the Regulations of the Administrator contains two subparts. Subpart A contains the general requirements applicable to all Technical Standard Order, such as “Method of Conformance,” “Marking,” and “Deviations.” The provisions of subpart A are repeated below for the convenient reference of the public. Subpart B contains the technical standards and specifications to which a particular product must conform. In accordance with the foregoing format the standards and specifications of the subject Technical Standard Order are set forth in the appropriate section of Subpart B. TECHNICAL STANDARD ORDERS MAY BE OBTAINED BY SENDING A REQUEST TO CAA, WASHINGTON 25, D.C.

SUBPART A — GENERAL

§ 514.1 *Basis and purpose*—(a) *Basis*. Section 601 of the Civil Aeronautics Act of 1938, as amended, and §§3.18, 4a.31, 4b.18, 6.18, 7.18 of the Civil Air Regulations.

(b) *Purpose*. The purpose of this part is to establish minimum performance standards for aircraft materials, parts, processes, and appliances which are to be used on civil aircraft of the United States, and to prescribe the manner by which the manufacturer must

show compliance with such performance standards.

§514.2 *Method of conformance*. A manufacturer of an aircraft material, part, process, or appliance for which standards are established in Subpart B of this part, prior to distribution for use on a civil aircraft of the United States, shall furnish a written statement of conformance certifying that the material,

part, process, or appliance meets the applicable performance standards established in this part. The statement of conformance shall be signed by a person duly authorized by the manufacturer, and shall be furnished to the Chief, Aircraft Engineering Division, Office of Flight Operations and Airworthiness, Civil Aeronautics Administration, Washington 25, D.C.

If complaints of nonconformance with the requirements of this Order are brought to the attention of the CAA and investigation indicates that such complaints are justified, the Administrator will take appropriate action to restrict the use of the product in civil aircraft.

§514.3 *Marking.* Materials, parts, processes, and appliances for which a statement of conformance has been submitted, shall be legibly and permanently marked with

the following information:

(a) Name and address of the manufacturer responsible for compliance,

(b) Equipment name, or type or model designation,

(c) Weight to the nearest pound and fraction thereof,

(d) Serial number and/or date of manufacturer, and

(e) Applicable Technical Standard Order (TSO) number.

§514.4 *Deviations.* No deviation will be granted from the performance standards established in Subpart B. Requests for deviation from other requirements of this part should be addressed to the Aircraft Engineering Division, Office of Flight Operations and Airworthiness, Civil Aeronautics Administration, Washington 25, D.C.

SUBPART B

§514.29 Portable water-solution type fire extinguishers—TSO-C19b. -- (a) Applicability -- (1) Minimum performance standards. Minimum performance standards are hereby established for portable water-solution type fire extinguishers which are to be used in civil aircraft of the United States. New models of portable water-solution type fire extinguishers manufactured for installation in civil aircraft on or after the effective date of this order shall meet the standards of Sections 5 and 6 and Sub-sections 4.1.1, 4.1.4, 4.1.5, 4.2.3, 4.3.1, and 4.3.2 of SAE Specification AS-245A dated December 15, 1956 ^{1/}, with the exceptions listed in subparagraph (2). Portable water-solution type fire extinguishers approved by the Civil Aeronautics Administration prior to the effective date of this order may continue to be manufactured under the provisions of their original approval.

(2) Exceptions. for the purpose of this order, the dischargeable capacity specified in 4.1.1 of AS-245A may be at least one quart.

(b) Marking. In addition to information required in §514.3, the following also must be legibly and permanently marked on the extinguisher: 1- capacity, 2- test pressure of container and 3- operating and maintenance instructions.

(c) Effective date. May 1, 1958.

^{1/} Copies may be obtained from the Society of Automotive Engineers, 485 Lexington Avenue, New York 17, New York.